

SEQUENCE LISTING

<110> Fourie, Anne
Coles, Fawn
Karlsson, Lars

<120> Aggrecanase-1 and -2 Peptide Substrates and Methods

<130> ORT-1417

<160> 60

<170> PatentIn version 3.1

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<213> Homo sapiens

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<213> Homo sapiens

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Trp Leu Val Trp Leu Leu Leu Leu Leu Leu Ala Ser Leu Leu Pro Ser
35 40 45

Ala Arg Leu Ala Ser Pro Leu Pro Arg Glu Glu Glu Ile Val Phe Pro
50 55 60

Glu Lys Leu Asn Gly Ser Val Leu Pro Gly Ser Gly Thr Pro Ala Arg
65 70 75 80

Leu Leu Cys Arg Leu Gln Ala Phe Gly Glu Thr Leu Leu Leu Glu Leu
85 90 95

Glu Gln Asp Ser Gly Val Gln Val Glu Gly Leu Thr Val Gln Tyr Leu
100 105 110

Gly Gln Ala Pro Glu Leu Leu Gly Gly Ala Glu Pro Gly Thr Tyr Leu
115 120 125

Thr Gly Thr Ile Asn Gly Asp Pro Glu Ser Val Ala Ser Leu His Trp
130 135 140

Asp Gly Gly Ala Leu Leu Gly Val Leu Gln Tyr Arg Gly Ala Glu Leu
145 150 155 160

His Leu Gln Pro Leu Glu Gly Gly Thr Pro Asn Ser Ala Gly Gly Pro
165 170 175

Gly Ala His Ile Leu Arg Arg Lys Ser Pro Ala Ser Gly Gln Gly Pro
180 185 190

Met Cys Asn Val Lys Ala Pro Leu Gly Ser Pro Ser Pro Arg Pro Arg
195 200 205

Arg Ala Lys Arg Phe Ala Ser Leu Ser Arg Phe Val Glu Thr Leu Val
210 215 220

Val Ala Asp Asp Lys Met Ala Ala Phe His Gly Ala Gly Leu Lys Arg
225 230 235 240

Tyr Leu Leu Thr Val Met Ala Ala Ala Ala Lys Ala Phe Lys His Pro
245 250 255

Ser Ile Arg Asn Pro Val Ser Leu Val Val Thr Arg Leu Val Ile Leu
 260 265 270

Gly Ser Gly Glu Glu Gly Pro Gln Val Gly Pro Ser Ala Ala Gln Thr
 275 280 285

Leu Arg Ser Phe Cys Ala Trp Gln Arg Gly Leu Asn Thr Pro Glu Asp
 290 295 300

Ser Asp Pro Asp His Phe Asp Thr Ala Ile Leu Phe Thr Arg Gln Asp
 305 310 315 320

Leu Cys Gly Val Ser Thr Cys Asp Thr Leu Gly Met Ala Asp Val Gly
 325 330 335

Thr Val Cys Asp Pro Ala Arg Ser Cys Ala Ile Val Glu Asp Asp Gly
 340 345 350

Leu Gln Ser Ala Phe Thr Ala Ala His Glu Leu Gly His Val Phe Asn
 355 360 365

Met Leu His Asp Asn Ser Lys Pro Cys Ile Ser Leu Asn Gly Pro Leu
 370 375 380

Ser Thr Ser Arg His Val Met Ala Pro Val Met Ala His Val Asp Pro
 385 390 395 400

Glu Glu Pro Trp Ser Pro Cys Ser Ala Arg Phe Ile Thr Asp Phe Leu
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Asp Asn Gly Tyr Gly His Cys Leu Leu Asp Lys Pro Glu Ala Pro Leu
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His Leu Pro Val Thr Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly
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<210> 9
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 <213> Homo sapiens

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Leu Ala Ala Val Gly Pro Ala Ala Thr Pro Ala Gln Asp Lys Ala Gly
 20 25 30

Gln Pro Pro Thr Ala Ala Ala Ala Ala Gln Pro Arg Arg Arg Gln Gly
 35 40 45

Glu Glu Val Gln Glu Arg Ala Glu Pro Pro Gly His Pro His Pro Leu
 50 55 60

Ala Gln Arg Arg Arg Ser Lys Gly Leu Val Gln Asn Ile Asp Gln Leu
 65 70 75 80

Tyr Ser Gly Gly Gly Lys Val Gly Tyr Leu Val Tyr Ala Gly Gly Arg
 85 90 95

Arg Phe Leu Leu Asp Leu Glu Arg Asp Gly Ser Val Gly Ile Ala Gly
 100 105 110

Phe Val Pro Ala Gly Gly Gly Thr Ser Ala Pro Trp Arg His Arg Ser
 115 120 125

His Cys Phe Tyr Arg Gly Thr Val Asp Gly Ser Pro Arg Ser Leu Ala
 130 135 140

Val Phe Asp Leu Cys Gly Gly Leu Asp Gly Phe Phe Ala Val Lys His
 145 150 155 160

Ala Arg Tyr Thr Leu Lys Pro Leu Leu Arg Gly Pro Trp Ala Glu Glu
 165 170 175

Glu Lys Gly Arg Val Tyr Gly Asp Gly Ser Ala Arg Ile Leu His Val
 180 185 190

Tyr Thr Arg Glu Gly Phe Ser Phe Glu Ala Leu Pro Pro Arg Ala Ser
 195 200 205

Cys Glu Thr Pro Ala Ser Thr Pro Glu Ala His Glu His Ala Pro Ala

210

215

220

His Ser Asn Pro Ser Gly Arg Ala Ala Leu Ala Ser Gln Leu Leu Asp
 225 230 235 240

Gln Ser Ala Leu Ser Pro Ala Gly Gly Ser Gly Pro Gln Thr Trp Trp
 245 250 255

Arg Arg Arg Arg Arg Ser Ile Ser Arg Ala Arg Gln Val Glu Leu Leu
 260 265 270

Leu Val Ala Asp Ala Ser Met Ala Arg Leu Tyr Gly Arg Gly Leu Gln
 275 280 285

His Tyr Leu Leu Thr Leu Ala Ser Ile Ala Asn Arg Leu Tyr Ser His
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Ala Ser Ile Glu Asn His Ile Arg Leu Ala Val Val Lys Val Val Val
 305 310 315 320

Leu Gly Asp Lys Asp Lys Ser Leu Glu Val Ser Lys Asn Ala Ala Thr
 325 330 335

Thr Leu Lys Asn Phe Cys Lys Trp Gln His Gln His Asn Gln Leu Gly
 340 345 350

Asp Asp His Glu Glu His Tyr Asp Ala Ala Ile Leu Phe Thr Arg Glu
 355 360 365

Asp Leu Cys Gly His His Ser Cys Asp Thr Leu Gly Met Ala Asp Val
 370 375 380

Gly Thr Ile Cys Ser Pro Glu Arg Ser Cys Ala Val Ile Glu Asp Asp
 385 390 395 400

Gly Leu His Ala Ala Phe Thr Val Ala His Glu Ile Gly His Leu Leu
 405 410 415

Gly Leu Ser His Asp Asp Ser Lys Phe Cys Glu Glu Thr Phe Gly Ser
 420 425 430

Thr Glu Asp Lys Arg Leu Met Ser Ser Ile Leu Thr Ser Ile Asp Ala
 435 440 445

Ser Lys Pro Trp Ser Lys Cys Thr Ser Ala Thr Ile Thr Glu Phe Leu
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Leu Gly Gly Asp Tyr Lys Asp Asp Asp Lys Gly
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Glu Gly Asn Ala Phe Asn Asn Leu Asp
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<210> 15
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<400> 15

Glu Gln Leu Arg Met Lys Leu Pro
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Glu Arg Gly Phe Phe Tyr Thr Pro
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<210> 17
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<400> 17

Glu Val Thr Glu Gly Pro Ile Pro
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Glu Leu Pro Met Gly Ala Leu Pro
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Glu Lys Pro Ala Ala Phe Phe Arg Leu
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Glu Leu Tyr Glu Asn Lys Pro Arg Arg Pro Tyr Ile Leu
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Glu Lys Pro Ala Glu Phe Phe Ala Leu
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Glu Lys Pro Ala Lys Phe Phe Arg Leu
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Glu Ile Pro Phe His Leu Val Ile His Thr
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Glu Pro Pro Val Ala Ala Ser Ser Leu Arg Asn
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<400> 41

Glu Gln Lys Leu Asp Lys Ser Phe Ser Met Ile
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Glu Pro Ser Ala Ala Gln Thr Ala Arg Gln His Pro
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<400> 43

Glu Pro Gly Ala Gln Gly Leu Pro Gly Val Gly
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Gly Leu Arg Thr Asn Ser Phe Ser
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Arg Gly Val Val Asn Ala Ser Ser Arg Leu Ala
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Lys Pro Ile Leu Phe Phe Arg Leu Gly Lys
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<210> 47

<211> 13

<212> PRT

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<400> 47

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<210> 48

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Glu Arg Phe Ala Gln Ala Gln Gln Gln Leu Pro
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<210> 49

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<212> PRT

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<400> 49

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1 5 10

<210> 50

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<220>

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<400> 50

Leu Ala Gln Ala Val Arg Ser Ser Ser Arg
1 5 10

<210> 51

<211> 9

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<220>

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<400> 51

Glu Arg Thr Ala Ala Val Phe Arg Pro
1 5

<210> 52

<211> 8

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<400> 52

Glu Arg Val Arg Arg Ala Leu Pro
1 5

<210> 53

<211> 9

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<400> 53

Glu Ser Phe Pro Arg Met Phe Ser Asp
1 5

<210> 54

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<400> 54

Glu Glu Tyr Leu Glu Ser Phe Leu Glu Arg Pro
1 5 10

<210> 55

<211> 12

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<400> 55

Glu Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met
1 5 10

<210> 56

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Glu His Gly Asp Gln Met Ala Gln Lys Ser Gln Ser Thr
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